

Department of Education School Watershed Project ('01-'03)

Contractor: Department of Education (DOE), Environmental Education Specialists

Project Period: May 2002 through August 2004

Federal FY00 & 01/Match: \$164,046 / \$165,737

% of Project Completed: 5%

The project will develop a teacher development program for the Honolulu district schools through which teachers will learn how to assist students in achieving selected content standards in the context of watershed study, which deepens understanding of nonpoint source pollution and fosters environmental stewardship. Working through the DOE, the Polluted Runoff Control Program can reach students statewide.

A project resource teacher was hired to coordinate the teacher development courses. The courses will be developed by mid-October and held in late-November. A draft plan for an educational network was developed. The network will allow classroom teachers and support personnel an opportunity to share their successes and challenges in dealing with watershed related programs.

CURRENT PROJECTS FUNDED UNDER A MACROALGAL BLOOM §104(b)(3) GRANT

CWA Section 104(b)(3) provides funding for projects that accomplish storm water control, sludge management, and pretreatment. Currently PRC utilizes these funds in administering two contracts with demonstration sites and implementation of Best Management Practices to control storm water.

The funds have been targeted for the West Maui Watershed. West Maui identified the abundance of macro algae, in its Watershed Owners Manual, to be a species that 'grows like a weed' and is difficult to control. Algal blooms in West Maui involve three types of macroalgae: *Cladophora*, *Hypnea*, and *Ulva*. Elevated concentrations of dissolved nitrogen and phosphorus in the narrow band of nearshore water where macro algae thrives is attributed to groundwater seeps which carry fertilizer leachate from large-scale agriculture, cesspools, and septic systems. With funding provided to contractors on Maui, PRC works to reduce nutrient input to the ocean from the watershed, and help improve the quality of West Maui's coastal waters for recreational use and aesthetic purposes.

Best Management Practice Improvement on Maui Pineapple Company and Pioneer Mill Company Land

Contractor: West Maui Soil and Water Conservation District (WMSWCD)

Project Period: April 2000 through April 2003

Federal FY98 Funds/Match: \$285,000 / \$90,000

% of Project Completed: 75%

The project will reduce further degradation of near coastal waters by constructing sediment retention basins and enhancing current Best Management Practices.

Best Management Practices continue to be constructed and maintained on Maui Pineapple Company and Pioneer Mill Company land. Best Management Practices constructed include five sediment basins, an access road, and grass filter strips. However, because of labor constraints, construction has been slow this year.



Grassed Waterway

Implementing Best Management Practices to Remediate Sediment Runoff

Contractor: West Maui Soil and Water Conservation District (WMSWCD)

Project Period: May 2001 through April 2003

Federal FY98 Funds/Match: \$47,000 / \$47,000

% of Project Completed: 85%

The project will demonstrate how the implementation of Best Management Practices on Maui Pineapple Company land in West Maui will help prevent the further degradation of West Maui near coastal waters.

The WMSWCD continues to install BMPs, such as ford crossings, sediment basins, and road drainage improvements. Due to current labor shortages, the project will not be completed until April 2003.



In some pineapple fields, the soil particles are so fine, the pineapple plants are covered in dust.